

IN THE CLAIMS:

Please cancel claims 1-2 without prejudice or disclaimer, amend claims 3-8, and add new claims 9-13 as follows:

- 1-2. (Cancelled)
3. (Currently Amended) A method for displaying gene expression data ~~according to claim 2~~, comprising: ~~combining the expression level data of the genes from the two experiments such as to conserve~~
calculating a first ratio of [[the]] expression levels of each of a plurality of genes in a first experiment between a Sample[[s]] A and a Sample B; [[and]]
calculating a second ratio of [[the]] expression levels of said each of a plurality of genes in a second experiment between the Sample[[s]] A and a Sample C; and
displaying marks of a first product of the first ratio and a constant, a second product of the second ratio and the constant, and the constant on coordinate positions with respect to x-, y- and z-axes obtained by the combination on or inside a surface of a sphere,
wherein the constant is determined to make the marks viewable.
4. (Currently Amended) A method for displaying gene expression data according to claim ~~[[2]]~~3, further comprising: ~~combining the expression level data of the genes from the two experiments such as to conserve the~~ calculating a first magnitude relation of the expression levels of each gene between Samples A and B and [[the]] a second magnitude relation of each of the marks expression levels of each gene between Samples A and C, ~~as well as to conserve a ratio of the expression levels of each gene between Samples A and B and a ratio of the expression levels of each gene between Samples A and C;~~ calculating a third ratio of the first magnitude and the second magnitude of each of the marks; and using the third ratio as the constant to display displaying-magnitude coordinate positions corresponding to the marks obtained by the combination inside [[a]] the sphere.

5. (Currently Amended) A method for displaying gene expression data according to claim 3, further comprising: performing a clustering analysis ~~based~~ on the displayed marks position of each gene on the sphere; and ~~displaying a~~ marking at least one gene group obtained by the clustering analysis as a region on the sphere.
6. (Currently Amended) A method for displaying gene expression data according to claim 4, further comprising: performing a clustering analysis ~~based~~ on the displayed magnitude coordinate positions of each gene inside the sphere; and ~~displaying a~~ marking at least one gene group obtained by the clustering analysis as a region inside the sphere.
7. (Currently Amended) A method for displaying gene expression data according to either one of claims 3, ~~and 4~~ and 11, wherein the expression level data is data in a time series, which is displayed based on ~~the expression level data at~~ respective time points for each gene ~~such that the~~ in conjunction with a direction of ~~[[the]]~~ changes of the coordinate positions with time ~~can be understood in the displaying step.~~
8. (Currently Amended) A method for displaying gene expression data according to either one of claims 5, ~~and 6,~~ and 13, wherein the expression level data is data in a time series, and said region is displayed based on respective time points in conjunction with a direction of changes of ~~[[the]]~~ said region~~[[s]]~~ with time ~~are displayed in the displaying step.~~
9. (New) A method for displaying gene expression data according to claim 3, wherein a represents an expression level of the Sample A and b represents an expression level of the Sample B in the first experiment, A represents an expression level of the Sample A and c represents an expression level of the Sample C in the second experiment such that the first ratio is expressed as b/a , the second ratio is expressed as c/A , and coordinates of the marks are expressed as $(b/a, c/A, 1)$.
10. (New) A method for displaying gene expression data according to claim 4, wherein a represents an expression level of the Sample A and b represents an expression level of

the Sample B in the first experiment, A represents an expression level of the Sample A and c represents an expression level of the Sample C in the second experiment such that the first magnitude r is expressed as $r = \sqrt{\{(b/a)^2 + (c/A)^2 + 1\}}$, the second magnitude R is expressed as $R = \sqrt{\{b^2 + c^2 + (a + A)^2\}}$, and the third ratio is expressed as R/r.

11. (New) A method for displaying gene expression data according to claim 3, further comprising: calculating a first magnitude and a radius of each of the marks; calculating a fourth ratio of the first magnitude and the radius; and using the fourth ratio as the constant to display surface coordinate positions corresponding to the marks on a surface of the sphere
12. (New) A method for displaying gene expression data according to claim 11, wherein a represents an expression level of the Sample A and b represents an expression level of the Sample B in the first experiment, A represents an expression level of the Sample A and c represents an expression level of the Sample C in the second experiment such that the first magnitude r is expressed as $r = \sqrt{\{(b/a)^2 + (c/A)^2 + 1\}}$, the radius is expressed as K, and the fourth ratio is expressed as K/r.
13. (New) A method for displaying gene expression data according to claim 11, further comprising: performing a clustering analysis on the displayed magnitude coordinate positions on the sphere; and marking at least one gene group obtained by the clustering analysis as a region on the sphere.